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For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: INTERFERON BETA-LIKE MOLECULES FOR TREATMENT OF STROKE

(57) Abstract: The present invention relates to use of interferon beta-like polypeptides for treatment of stroke or transient ischemic  
attach in a primate, preferably in a human. More particularly, the interferon beta-like polypeptides differs from the amino acid  
sequence of wild-type human IFNB (SEQ ID NO:2) in that at least one glycosylation site, preferably at least one in vivo N-glyco-  
sylaion site has been introduced. Optionally the interferon beta-like polypeptides are PEGylated.

WO 2003/075944 A3

# INTERNATIONAL SEARCH REPORT

Inter. Application No  
PCT/DK 03/00127

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 A61K38/21 //A61P9/10

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, EMBASE, BIOSIS, CHEM ABS Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 02 089828 A (TAN YIN HWEI ;SCHELLEKENS HUBERTUS (NL); INST OF MOLECUL & CELL BI) 14 November 2002 (2002-11-14) abstract; claim 4	1-46
P,X	HAIPING LIU ET AL: "Interferon-Beta administration confers a beneficial outcome in a rabbit model of thromboembolic cerebral ischemia" NEUROSCIENCE LETTERS, vol. 327, no. 2, 19 July 2002 (2002-07-19), pages 146-148, XP002265673 abstract	1-46

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

**\* Special categories of cited documents :**

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

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# INTERNATIONAL SEARCH REPORT

Inte      Application No  
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 02 080959 A (VELDHUIS WOUTER BERNARD ;NICOLAY KLAAS (NL); UNIV UTRECHT (NL); UN) 17 October 2002 (2002-10-17) the whole document ---	1-46
P,X	WO 02 080976 A (CHIRON CORP ;BABUKA SUSAN (US); CHOE MINNA (US); SHIRLEY BRET A (U) 17 October 2002 (2002-10-17) page 23, line 30 page 14, line 6 - line 10; claim 33 ---	1-46
X	EP 0 797 998 A (TORAY INDUSTRIES) 1 October 1997 (1997-10-01) column 5, line 1 - line 2 column 5, line 30 - line 35 ---	1-46
P,A	WO 02 080953 A (VELDHUIS WOUTER BERNARD ;NICOLAY KLAAS (NL); UNIV UTRECHT (NL); UN) 17 October 2002 (2002-10-17) the whole document ---	1-46
A	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 10, 31 October 1997 (1997-10-31) & JP 09 151137 A (TORAY IND INC), 10 June 1997 (1997-06-10) abstract ---	1-46
X	WOUTER B VELDHUIS: "Delayed treatment with interferon-beta protects against ischemic stroke" STROKE, vol. 33, January 2002 (2002-01), page 346 XP002265895 the whole document -----	1-46

# INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/DK 03/00127

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 39-46  
because they relate to subject matter not required to be searched by this Authority, namely:  
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Claims Nos.: 39-46

Claims 39-46 relates to methods of treatment of the human or animal body by surgery or by therapy or diagnostic methods practised on the human or animal body (PCT Rule 39.1(iv)). Nevertheless, a search has been executed for these claims. The search has been based on the alleged effects of the compounds or compositions.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report			Publication date	Patent family member(s)			Publication date
WO 02089828	A		14-11-2002	WO	02089828	A2	14-11-2002
WO 02080959	A		17-10-2002	WO	02080959	A1	17-10-2002
				WO	02080953	A2	17-10-2002
WO 02080976	A		17-10-2002	US	2002172661	A1	21-11-2002
				WO	02080976	A2	17-10-2002
EP 0797998	A		01-10-1997	EP	0797998	A1	01-10-1997
				CA	2210622	A1	29-05-1997
				WO	9718831	A1	29-05-1997
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JP 09151137	A		10-06-1997	NONE			